***Scenario 1:***

1. The independent variable(s) and its data type

**Gender - Categorical**

2. The levels of the independent variable, if appropriate

**Male, Female**

3. The dependent variable(s) and its data type

**Did they sign up?**

4. The levels of the dependent variable, if appropriate

**Yes, No**

5. The most appropriate analysis

**Independent Chi Square**

***Scenario 2:***

1. The independent variable(s) and its data type

**Type of Card Member - Categorical**

2. The levels of the independent variable, if appropriate

**Silver, Gold, Platinum**

3. The dependent variable(s) and its data type

**Amount Spent - Continuous**

4. The levels of the dependent variable, if appropriate

**Many**

5. The most appropriate analysis

**MANOVA**

***Scenario 3:***

1. The independent variable(s) and its data type

**Was the purchase made before or after getting a card - Categorical**

2. The levels of the independent variable, if appropriate

**Before, After**

3. The dependent variable(s) and its data type

**Amount Spent - Continuous**

4. The levels of the dependent variable, if appropriate

**Many**

5. The most appropriate analysis

**MANCOVA**

***Scenario 4:***

1. The independent variable(s) and its data type

**Age - Continuous**

2. The levels of the independent variable, if appropriate

**Many**

3. The dependent variable(s) and its data type

**Will they sign up - Categorical**

4. The levels of the dependent variable, if appropriate

**2 levels**

5. The most appropriate analysis

**Independent Chis Square**